

**AIROLITE®**

**Ventilating Louvers**  
**formed and extruded**  
**THE AIROLITE® COMPANY**

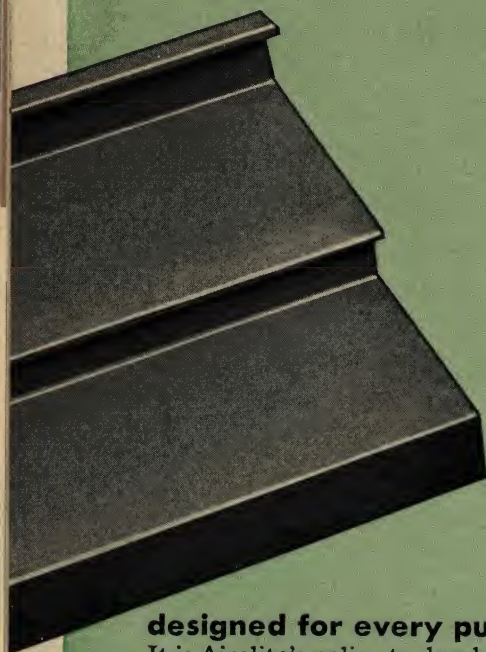




# LOUVERS

**designed for every purpose  
designed in every metal**

For more than 30 years The Airolite Company has served the Building Industry in supplying Ventilating Louvers of various types, designs and materials for all kinds of installations and construction. The growth of the company since 1926 is evidence of the confidence placed in Airolite by the many Architects, Engineers and Owners who regularly specify and use Airolite products.



## **designed for every purpose**

It is Airolite's policy to develop standard designs, for which dies and tools are readily available, to meet almost any Louver requirement from the smallest unit for an interior door to the largest exterior Louver for heavy duty service, and to maintain the highest standards of quality and workmanship while assuring maximum ventilating efficiency, durability and good appearance. Modern facilities are available for special designs if and when they are actually required.

These pages illustrate many of the standard Louver types available. Readily adaptable to the large majority of conditions and installations, these designs are of established value for the purposes intended. These proved designs will almost invariably better serve the most exacting requirement than will special designs of untried and unknown performance.

## **designed in every metal**

Selection of the proper Louver for the specific purpose is assured as the result of the Airolite Company's unique ability to offer both formed sheetmetal and extruded aluminum Louvers.

Airolite formed Louvers are regularly fabricated of cold rolled and galvanized steel, aluminum, copper and stainless steel, as may be specified, and subject to availability. Recommended gauges are listed with specific designs outlined in the following pages.

## **formed**

Over the years, The Airolite Company has developed formed sheetmetal Louvers of outstanding designs for use in doors, partitions, walls, wherever efficient and economical ventilation has been required.

In most cases, previously established Louver designs of proved value will afford the service required with greater efficiency, fewer delays, lower cost and better appearance than special designs. However, the use of sheetmetal permits a flexibility of design which insures adaptability to the most rigorous and unusual requirements. Custom-made formed Airolite Louvers are not restricted in design by the limitations imposed in the use of extrusions.

The variety of designs, materials, gauges and finishes made available through the use of formed sheetmetal Airolite Louvers is unsurpassed. This variety offers assurance of a wide choice in adapting the demands of appearance, use and economy to each specific ventilating requirement.

## **extruded**

The Airolite Company has developed Louvers of extruded aluminum as a worthy complement to its formed sheetmetal designs. Made of heavy 12 gauge (.081") aluminum, Airolite Extruded Aluminum Louvers employ blade and frame shapes which have proved themselves in formed sheetmetal Louvers for over 30 years.

The Airolite Extruded Aluminum Industrial Louvers are the result of long experience in the Louver industry and the latest technological advancements in the metallurgical field. The clean lines and natural beauty of extruded aluminum in combination with proved designs meet the severest tests of modern architectural demands.

Although variety is inhibited by the necessity for the use of stock dies and extrusions, extruded aluminum lends itself beautifully to the formation of long horizontal runs of Louvers with a continuous blade effect. Mitered corner pieces in conjunction with long Louver runs permit a mobility and unity of effect possible only with extruded aluminum.



## finishes

### steel

Airolite Flow Finishing Facilities finish steel Louvers in a process which includes chemical cleaning, bonderizing, prime coating and oven baking in one continuous operation.

After the automatic operation is completed, the spray coating and baking of the final application of enamel takes place, assuring a beautiful, corrosion resisting, tough, long lasting finish.

Bonderizing protects metal surfaces and provides superior paint adhesion by giving all surfaces a corrosion inhibiting phosphate coating.

As a standard procedure, all steel Airolite Louver sections with overall dimensions of not more than 72 inches by 72 inches are finished in accordance with the above description.

### aluminum

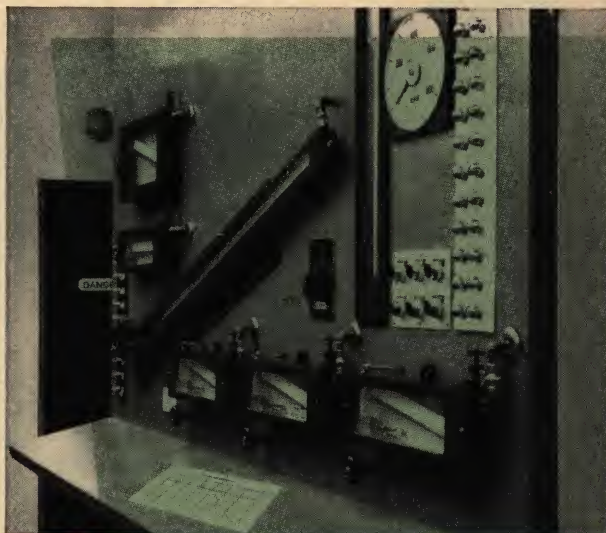
Aluminum Louvers are furnished with natural mill finish unless otherwise specified. The natural corrosion resistance and beauty of mill finish aluminum meets the requirements for the majority of installations.

Occasionally, aluminum will be desired with a painted finish. The same process described for the finishing of steel Louvers can be applied. The application of Bonderite etches the surface of the aluminum to provide a bond for the paint.

For special requirements necessitating aluminum of high luster or with added protection where man-made conditions may be expected to accelerate deterioration of metals, anodized and/or polished aluminum finishes are readily available. For information regarding the many aluminized and textural finishes and their desirability for specific conditions and uses, reference should be made to the literature of aluminum manufacturers.

### other metals

Louvers of other metals, such as copper, bronze and stainless steel, are regularly furnished with mill finish. Special alloys and finishes have been provided subject to availability.



Airolite's completely equipped Development Laboratory, including a scientifically designed wind tunnel and 4½ ton Centrifugal Blower, takes the "guesswork" out of all ventilation problems.

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A small section of Airolite's automatic Flow Finishing Facilities.



# INDUSTRIAL LOUVERS FOR HEAVY DUTY REQUIREMENTS

Airolite Industrial Louver designs are the result of many years of experience in designing and building Stationary and Adjustable Louvers for all types of heavy duty requirements. Whether the installation is to be made in exterior walls, ducts, skylights, ceilings or elsewhere for inlet, exhaust, pressure relief, through the wall ventilation or other of the many varied industrial requirements, it is most likely that one of the Airolite's many industrial designs has already solved similar problems in many sections of the country.

## formed

Formed Airolite Industrial Louvers are regularly fabricated of 16 gauge cold rolled or galvanized steel or other available metals of similar thickness. Other gauges can be used but 16 gauge affords more than adequate strength for normal requirements.

Steel Louvers are finished with Bonderite and baked Epon gray primer, plus any standard solid color baked enamel when desired. (See page 3)

## extruded

All Airolite Extruded Aluminum Louvers are fabricated of 12 gauge (.081") aluminum alloy 6063-T5.

Aluminum is regularly furnished with natural mill finish, special finishes being available. (See page 3)

## general

Heavy Duty Industrial Louvers can be equipped with flanges, anchors or screw holes in frame members to make installation possible either during or after wall construction. (See page 12)

Sheetmetal and extruded aluminum sill pieces are available. (See page 13)

Screen can be mounted on either side of Stationary Louvers. (See page 12)

## standard stationary blades

### formed and extruded

Airolite Stationary Industrial Louvers are installed wherever constant ventilation with weather protection is required.

The standard blade designs have been developed over the years as those best suited to meet varying requirements of free area and protection from the elements. Choice of design will depend largely on the relative importance of those two basic factors.

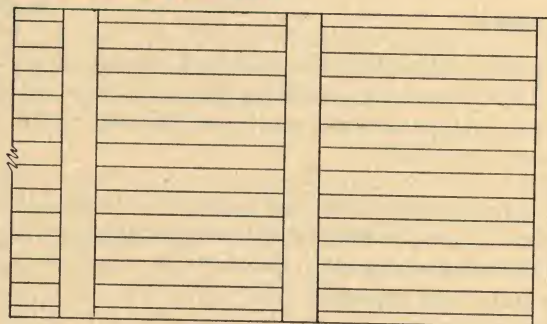
Heavy Duty Stationary Louvers are often desired as added weather protection in front of Adjustable Louvers. (See Combination Louvers, pages 8 and 9)

Available in any size, units over 72" wide or high are usually built in sections joined with visible vertical or horizontal mullions. When necessary, single sections can be made somewhat over 72" high. Extruded sections can exceed 72" in width. Exceptions depend on variable factors including structural supports in openings.

## stationary type . . . . .

### standard blade

#### formed and extruded



Standard sections joined with visible mullions.



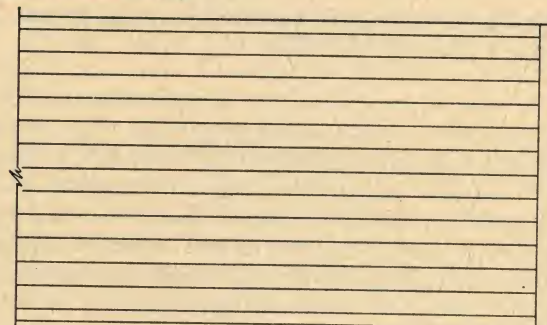
Formed stationary Louvers of standard construction have legs of side channels turned in.



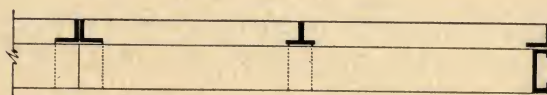
Extruded Aluminum Louvers are available with side channels turned in (use prefix T with the Louver type number) or out (use prefix K).

## continuous blade

### extruded only

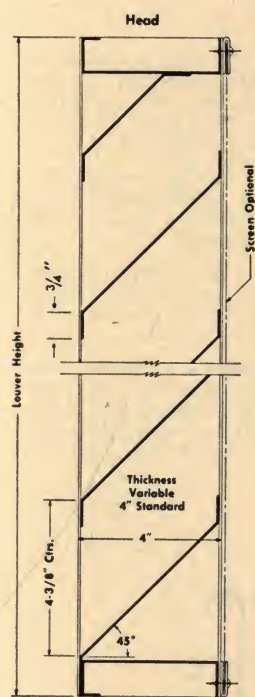


Extruded sections joined with mullions invisible from the exterior.



Field assembly joints are installed by others with  $\frac{1}{4}$ " expansion joints between vertical supports. The use of  $2\frac{3}{4}$ " extruded aluminum underlay support brackets makes the joints water and sight-proof.





VERTICAL SECTION  
type 609-A

### formed louvers

With exception of Type 638, standard thickness is 4" and may be varied from 1½" to 8". Type 638 is 3¾" thick only.



Type 609-A with blades at 45° angle. If specified, blades can be shaped with return bends.



Type 666 with blades at 30° angle. Return bends at upper blade edges act as water baffle. This design offers a large degree of weather resistance combined with optimum ventilating area.



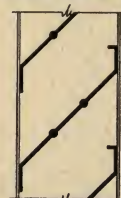
Type 601-C with inverted "V" blades. Sightproof and especially recommended for interior walls.



Type 638 Stationary Leakproof. Available in 26 gauge galvanized steel with blade shape ensuring adequate strength for normal requirements. For unusually heavy duty service, this design can be fabricated of 16 gauge with slight construction changes.

### extruded louvers

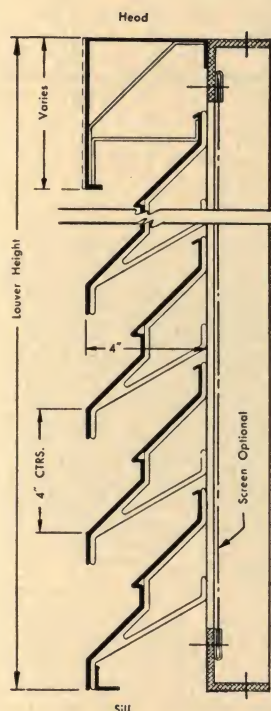
Standard thickness is 4" and is not variable. For a 2" thick Louver similar to T609, specify Type T608.



Type T609 (side channels turned in) or K609 (side channels turned out). Blades at 45° angle with return bends at upper edges.



Type T638 (side channels turned in) or K638 (side channels turned out). Blades at 45° angle, water baffles at center of blades and return bends at upper blade edges insure maximum leakproof qualifications.



VERTICAL SECTION  
type CB638

### continuous blades

To complement the growing emphasis on unbroken horizontal lines in architectural design, Airolite Extruded Aluminum Stationary Louvers are available for installation permitting a continuous blade effect, including mitered blades where Louver runs continue around building corners.

The continuous blade effect on the exterior is achieved with Louver sections joined on the interior side with angle and "T" bar supports, the blades being reinforced at joints with blade support brackets. (See vertical section at left)

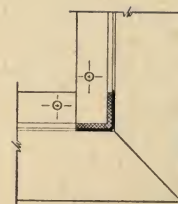
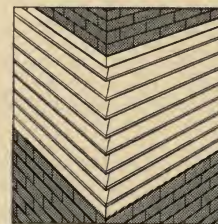
Screen is optional and can be mounted on the interior to offer protection while preserving the unbroken effect on the exterior.

**Specify CB638** when continuous blade effect is desired with T638 blades. (See T638 above or vertical section at left)

**Specify CB609** when continuous blade effect is desired with T609 blades. (See T609 above)

### mitered corners

Mitered and heliarc welded blade corners offer mobility in architectural planning for Louver runs with an unbroken line effect around corners.







# INDUSTRIAL LOUVERS FOR HEAVY DUTY REQUIREMENTS

## adjustable type . . . . .

Airolite Adjustable Industrial Louvers permit controlled ventilation to meet the changing requirements of any given installation.

Formed Adjustable Louvers are fabricated of 16 gauge steel, and other available metals of similar thickness, while extruded adjustable designs are of 12 gauge (.081") extruded aluminum.

### blades

Adjustable blades open to a full 70° and can be adjusted as varying requirements of ventilation and weather protection arise. When closed, blades remain firmly in position regardless of exterior wind pressure.

Note that Airolite blade design assures maximum strength and rigidity, the blades being formed and extruded in shapes eliminating the possibility of sagging or buckling.

### standard methods of operation

Airolite Adjustable Industrial Louvers are regularly fitted with chains and wall holders or wing nut operators as may be desired. Blades can be adjusted to full-open, tight-closed or any intermediate position.

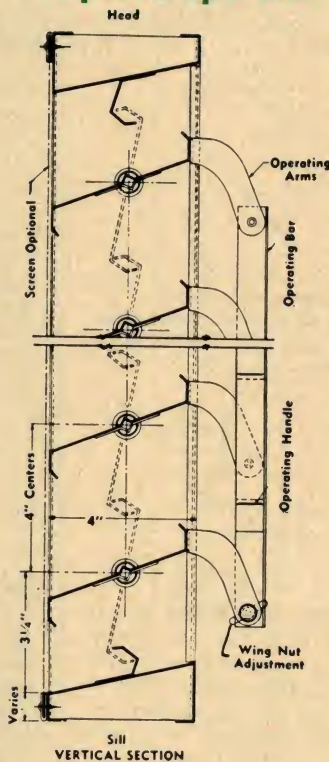
When required, Airolite Adjustable Louvers are equipped with fusible links for automatic opening or closing in case of fire. (Fusible links approved by Board of Fire Underwriters) When so equipped, the Louvers can be manually operated at all times.

### mechanical and motor operation

Adjustable Louvers in Industrial Buildings are frequently arranged in runs or tiers and require simultaneous operation of all blades in each run or tier by mechanical means. See some of the more common controls on page 7.

Many installations of Adjustable Louvers for industrial use require various kinds of motor operators. All Airolite Adjustable Industrial Louvers can be linked to motor operators to provide the kind of automatic control desired.

### exposed operator



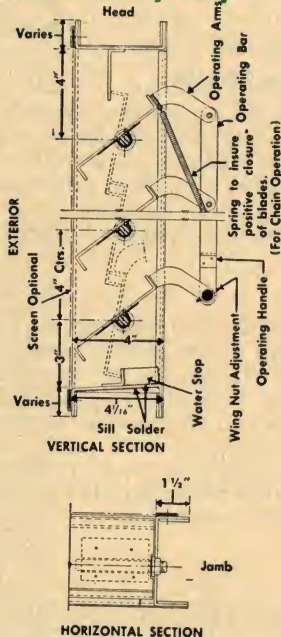
**Type 663-A** (formed sheetmetal), equipped with bearings having stainless steel balls and cadmium plated races. Standard 4" thick, other thicknesses available.

**Type T663** (extruded aluminum), equipped with nylon flanged bearings and aluminum pivot pins. Made 4" thick only.

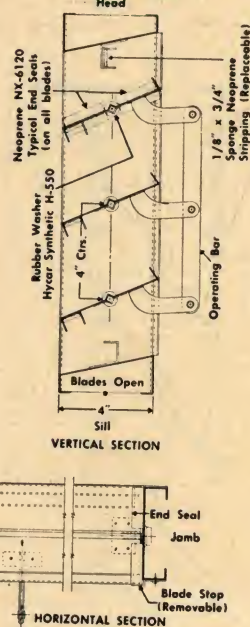
Other types of pivots and bearings are available and all are interchangeable in formed and extruded units.

Specify **Type 663-C-6** for installation in glass block walls. Same as Type 663-A but with flanges both sides. Inside flange is removable to permit installation during or after construction.

### extra heavy duty



### air-tite



**Type 750-D-1**, formed of 10 or 12 gauge steel, or other metals of similar thickness. This design is recommended only where extremely hard usage is involved. Types 663-A or T663 will fulfill all normal heavy duty requirements. Standard 4" thick, thicker units available.

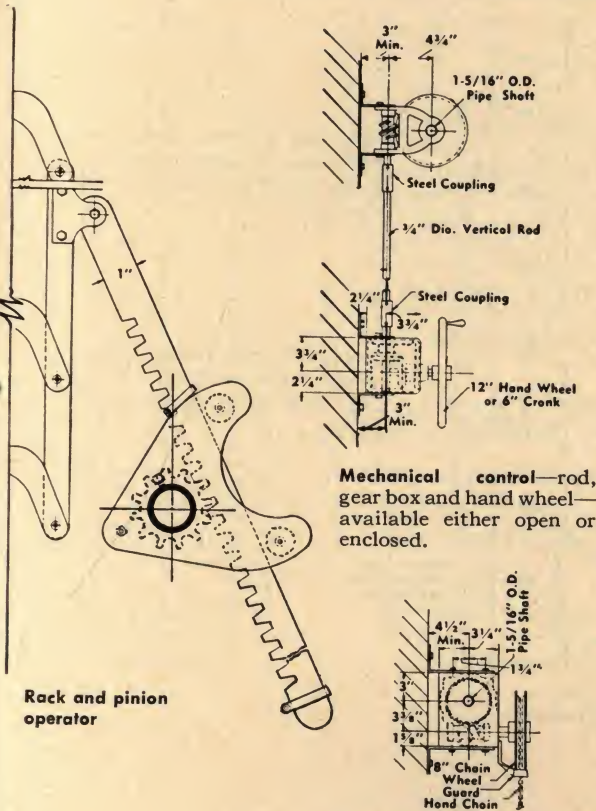
**Type 925**, formed Air-tite Adjustable Louver, 16 gauge steel, and other metals of similar thickness. Standard 4" thick. For those installations where absolute lack of air infiltration is necessary when blades are in the closed position.

Sponge Neoprene stripping and end seals on all blades.



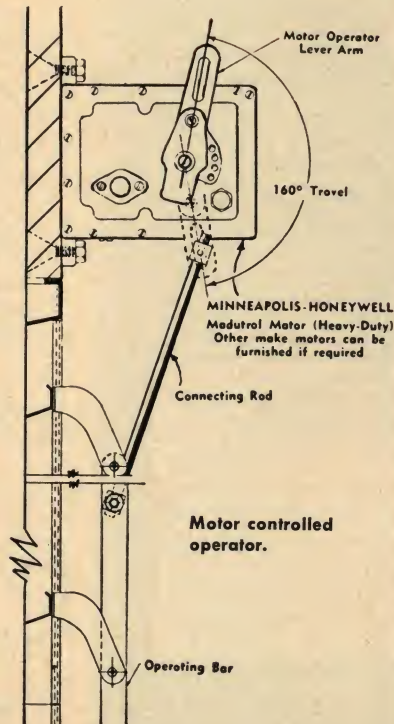
## operators—mechanical and motor

Operators and controls illustrated below are representative of the many types available.



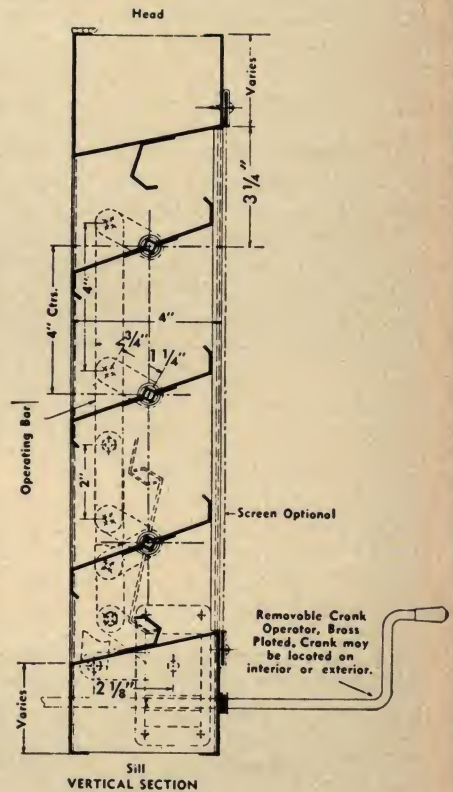
**Mechanical control—rod, gear box and hand wheel—**available either open or enclosed.

**Mechanical control—gear box and pull chain—**available either open or enclosed.

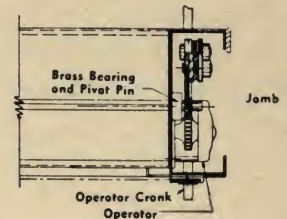


**Motor controlled operator.**

## concealed operator



**VERTICAL SECTION**

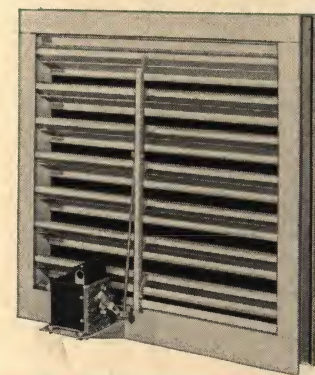


**HORIZONTAL SECTION**

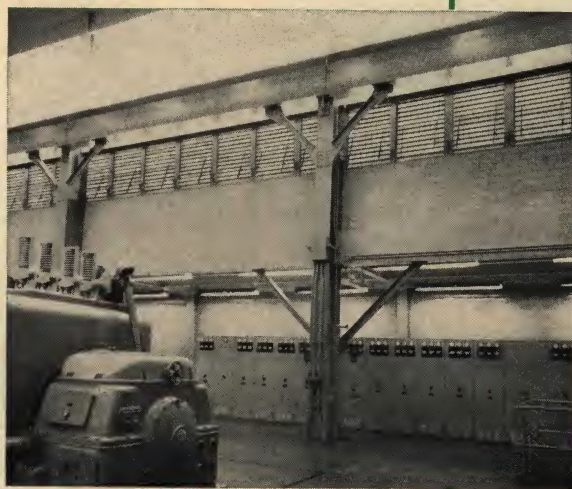
**Type 663-D-14** (formed sheetmetal), illustrated above. Fabricated of 16 gauge steel, and other available metals of similar thickness. Equipped with removable crank operator and enclosed mechanism. Made 4" thick only.

Specify **Type T663-D-14** for fabrication of 12 gauge extruded aluminum.

This design permits operation only by those in possession of the removable cranks. The mechanism can be arranged for crank operation on either interior or exterior. This type of Louver is required for mental hospitals or other places where no operating parts should be exposed and all possible projections or hazardous parts should be eliminated or made inaccessible.



**Type 663-A Adjustable Louver with Motor Operator.**



**Type 663-A Adjustable Ball Bearing Louvers** equipped with mechanical operators for adjustment of all blades in run of 15 louver sections. Installed at the Higgins Plant, Florida Power Corporation, Oldsmar, Florida. Architects and Engineers—The Kuljian Corp., Philadelphia, Pa.



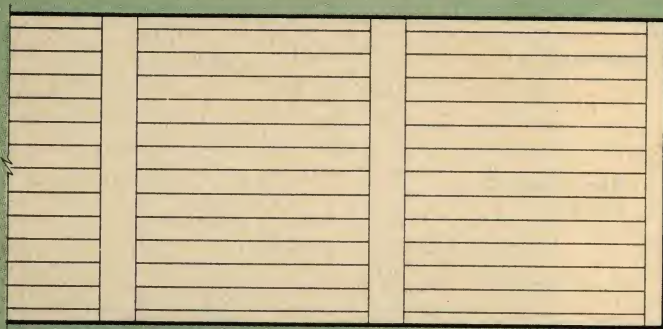
# INDUSTRIAL LOUVERS FOR HEAVY DUTY REQUIREMENTS

## combination type . . . . .

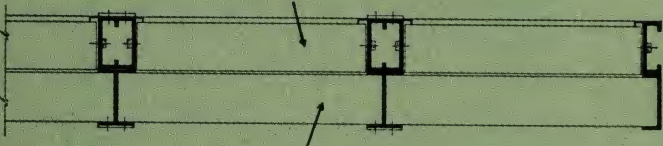
Due to varying weather and air flow requirements, it is often desirable to combine Heavy Duty Stationary and Adjustable Louvers to form combination units. The stationary segments on the exterior insure complete weather protection while the adjustable segments on the interior permit total adaptability to air flow requirements.

The Stationary designs illustrated on pages 4 and 5 are readily combined with the Adjustable Louvers described on pages 6 and 7. A few standard Combination Louvers are shown at right.

Combination units are not confined to combinations of Stationary Louvers with Adjustable Types illustrated on pages 6 and 7. The interior segments can be Special Purpose Louvers such as Types 675, 901-D-1, 625 or 525-D-10 as described on page 10. See Combination Type 525-1-E illustrated on page 9.



Multi-section adjustable louver on interior

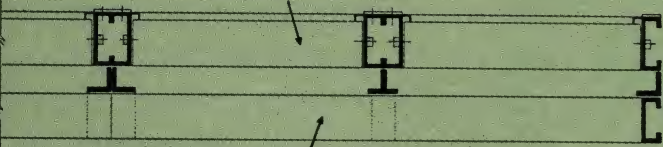


Multi-section stationary louver on exterior

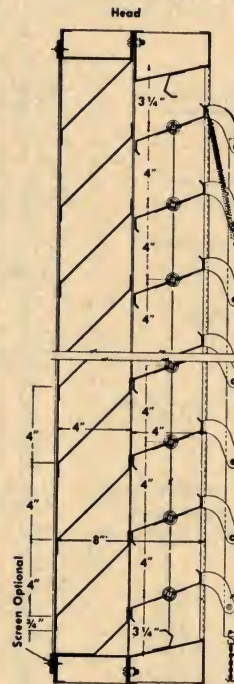
It is possible to furnish any combination of materials, formed or extruded units throughout, or combinations of formed and extruded segments. An outstanding example of adaptability is the use of continuous blade extruded aluminum Louvers on the exterior in combination with standard multi-section extruded aluminum or formed adjustable segments on the interior. See illustration below. This combination, especially suitable for walls 10" thick or over, offers the possibility of maximum beauty of line with optimum ventilating efficiency and control.



Multi-section adjustable louver on interior



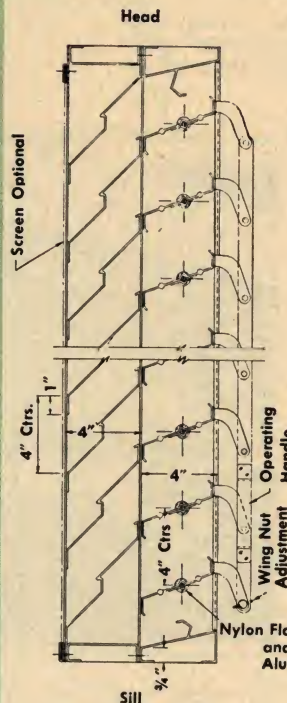
Continuous blade stationary louver on exterior



**Type 652** formed Louver (illustrated) a combination of Types 663-A and 609-A, or 666 if required.

VERTICAL SECTION

**Type T652** extruded aluminum Louver (combination Types T663 and T or K609 as required).



**Type T715** extruded aluminum Louver (illustrated) a combination of Types T663 and T or K638 as required.

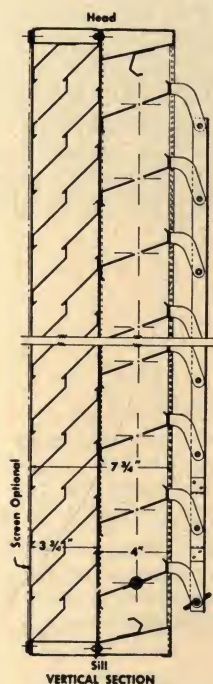
Maximum ventilating efficiency is insured by proper alignment of stationary and adjustable blades.

For Type 715-14 formed louver of similar design, see page 9.

VERTICAL SECTION

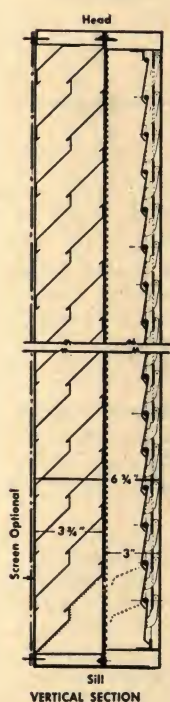
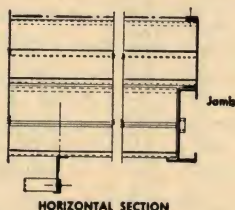


# ROOF LOUVER HOUSES



**Type 715-14** formed louver. The stationary leakproof segment is regularly furnished of 26 gauge galvanized steel. If the exterior stationary segment is desired of 16 gauge steel, the same as the interior adjustable segment, specify. Other metals of similar thicknesses can be used if available.

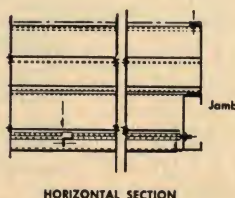
For Type T715 extruded aluminum louver, see page 8.



**Type 525-1-E** combination stationary leakproof and automatic louver. Made  $6\frac{3}{4}$ " thick, this is a combination of Type 525-D-10 described on page 10 and Type 638 described on page 5.

Whenever Type 525-D-10 is desired for use as an inlet Louver, it should be used in combination with Type 638 for necessary weather protection. Specify Type 525-1-E.

If desired the stationary segment may be extruded aluminum.

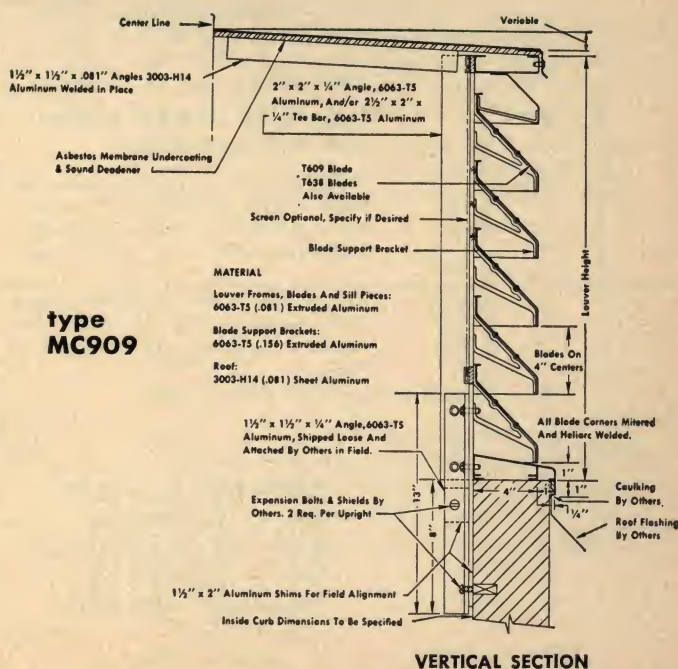


**Type MC909** Roof Louver House combines maximum through the roof ventilation and fine appearance by offering proved Airolite Louver design with the continuous blade effect of heliarc welded mitered corners.



This design, Type MC909, is offered with 4" thick Louvers of 12 gauge extruded aluminum with blades either Type T609 (see vertical section below) or T638 (see page 5). The strong 12 gauge sheet aluminum roof regularly furnished has a four-way pitch conducive to the natural shedding of rain and snow.

Where location makes mitered corners and continuous blade appearance unnecessary, **Type T909** is available with sheet aluminum corner covers at a considerable saving. Type T909 can be furnished with either adjustable or stationary blades.





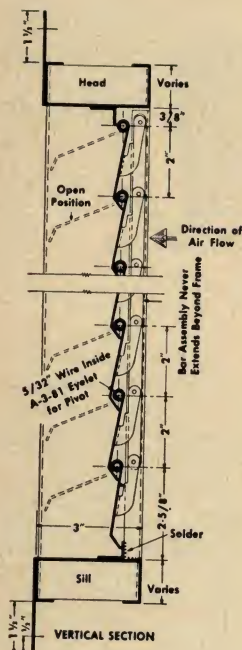
# SPECIAL PURPOSE LOUVERS

Over the years, Airolite has developed special Louver types to meet specifications involving Louver designs somewhat outside of normal ventilating requirements.

Special Purpose Louvers make use of standard materials, gauges and mouldings as illustrated on these pages. As a rule, Airolite standards of construction will better satisfy the most

severe job requirements than will special or custom designs. This is because our Special Purpose Louvers, as well as standard Louvers, have been tested, tried and proved.

Although some deviations from standard are quite possible, such changes usually involve higher costs, delays and possibly, reduced efficiency.



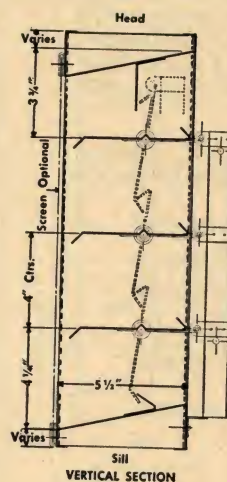
## type 525-D-10 automatic louver

Fabricated with a 16 gauge steel frame, or other metals of similar thickness, this design makes use of light, flutter-type blades which are always fabricated of 20 gauge sheet aluminum. Made 3" thick and intended for use in connection with fans and blowers.

Specify type desired:

- Type 1. Outlet louver with flat flange on exterior.
- Type 2. Inlet louver with flat flange on interior.
- Type 3. Outlet louver with flat flange on interior.
- Type 4. Inlet louver with flat flange on exterior.

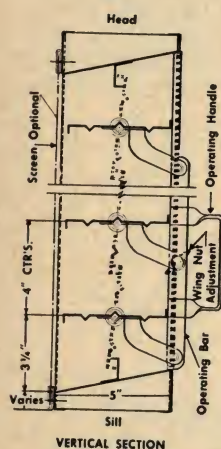
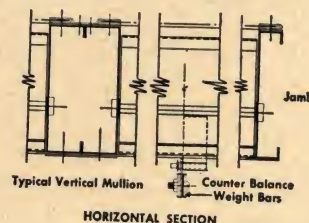
For heavy duty requirements, see Type 625, this page.



## type 625 heavy duty automatic louver

This Automatic Counter-Balanced Louver is designed for heavy duty service wherever automatic gravity-closing blade action is required.

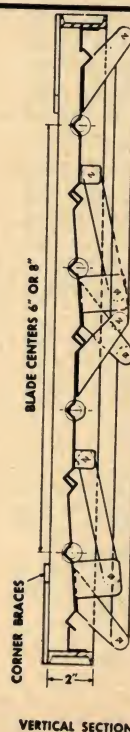
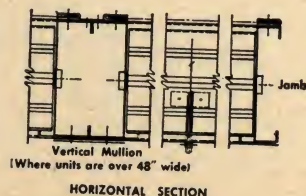
Made 5 1/2" thick of 16 gauge steel, or other sheet metals of similar thickness. Maximum section size—48" wide x 72" high. Minimum section height—17".



## type 675 adjustable straight blade ball bearing damper

Fabricated of 16 gauge steel, or other metals of similar thickness, made standard 5" thick. Maximum section size—48" wide by 72" high.

This design is used wherever maximum openings and free areas are required. Approximate free area is 75%.



## type 901-D-1 adjustable opposed blade action louver

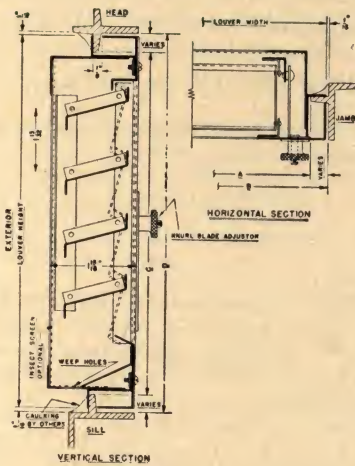
Made with 2" thick frame with blades of 6" or 8" centers, frame 3/16" x 9/16" x 2" rolled steel channel, blades 16 gauge steel, or other metals of similar thickness.

Maximum section size—60" wide x 72" high. Minimum section size with blades on 6" centers—12" wide by 28" high. Blades on 8" centers—12" wide x 35" high.

The opposed blade action permits direct forward flow of air without deflection, regardless of blade positions. This design is for control of velocity in air ducts, tunnels, pressure chambers and other similar requirements. Not intended for exterior openings.



### type 543 adjustable ventilator for metal sash

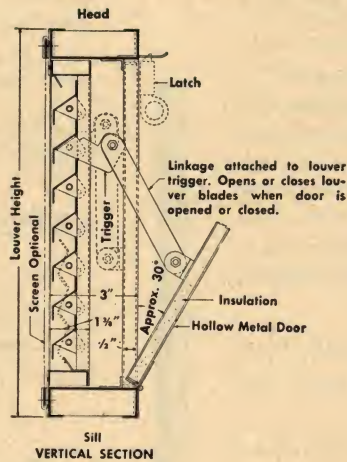


This unit insures ventilation when it is desirable for pivoted sash sections to be closed. The blades are designed to afford weather protection when in open positions, being easily adjustable to meet varying weather conditions.

Accessories available include insect screen, winter closure panels and cord and pulley operators. Specify when desired.

Made 1 15/16" thick and of 22 gauge steel.

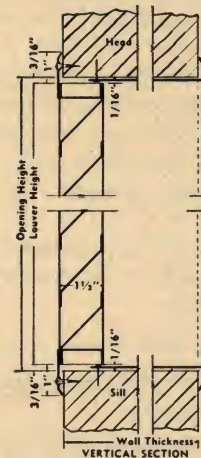
### type 551-G-1 adjustable louver with hinged insulation panel



Designed for ventilation at bottom or sides of permanently closed windows. This unit affords the necessary ventilation for comfort and reduction of condensation on glass and also permits complete winter closure.

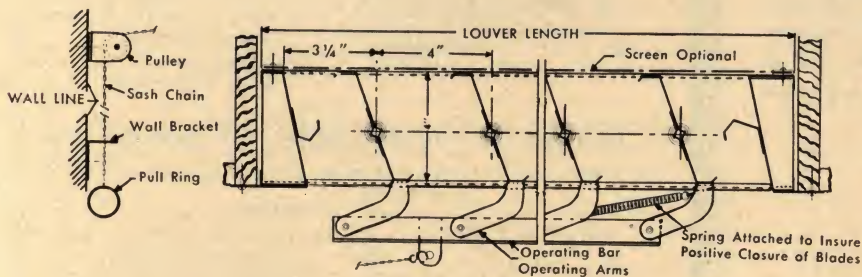
Made 3" thick and of 18 gauge steel, or other metals of similar thickness.

### type 696 special frame extension



Fabricated of 18 gauge steel, or other metals of similar thickness, this frame extension for walls of varying depths is available for use with both stationary and adjustable Louvers. The drawing shows Type 696 frame extension with Type 609-A Stationary Louver, 1 1/2" thick, as described on page 5.

When Type 696 Special Frame Extension is desired, specify Louver type, material and wall thickness.

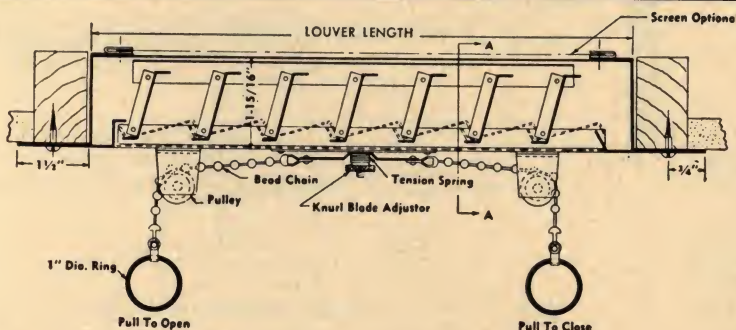


### type 663-AD-48

#### heavy duty adjustable ceiling louver

This Louver is equivalent in design, construction and materials to Types 663-A and T663, shown on page 6, except that it is adapted for installation in ceilings or other horizontal positions.

Can be equipped with fusible link for automatic closing in case of fire, and can be made adjustable with chain and wall bracket or hand hold and wing nut.



### type 531

#### adjustable ceiling ventilator

Made of 20 gauge steel, or other metals of similar thickness, Type 531 is equipped with a 1 1/2" flat metal flange for attachment to face of ceiling and fitted with chains and pulleys for blade adjustments from floor level or at ceiling height, as may be specified.



# SCREENS

Louvers can be equipped with screen of various materials, meshes and gauges.

When specifications call for special screen not carried in stock, every effort is made to secure it. However, the costly process of weaving special screen in small lots often makes it impossible to obtain the screen requested for less than exorbitant prices.

To facilitate the use of screen with Airolite Louvers and to avoid excessive costs, we carry in stock, when available, the following:

14 x 18 mesh bronze insect screen with antique finish  
 $\frac{1}{2}$ " square mesh 16 gauge steel bird screen galvanized after weaving

$\frac{1}{4}$ " square mesh 16 gauge steel bird screen galvanized after weaving

$\frac{1}{2}$ " square mesh 12 gauge steel bird screen galvanized after weaving

$\frac{1}{2}$ " square mesh 16 gauge copper bird screen

$\frac{1}{4}$ " square mesh 16 gauge copper bird screen

## *Recommended for Aluminum Louvers:*

14 x 18 mesh aluminum insect screen

$\frac{1}{2}$ " square mesh 14 gauge aluminum bird screen

$\frac{1}{2}$ " square mesh 16 gauge aluminum bird screen

$\frac{1}{4}$ " square mesh 16 gauge aluminum bird screen

Unless specified otherwise, all screen is mounted in our removable Standard Folded Frame. Insect screen is also available in a Formed Aluminum Rewirable Frame. When required, screen can be mounted in an Extruded Aluminum Rewirable Frame. Screen frames are attached to Louvers with sheet metal screws. An exception to the use of frames is when screen is desired placed between segments of combination Louvers.



STANDARD FOLDED  
FRAME



FORMED ALUMINUM  
REWIRABLE FRAME



EXTRUDED ALUMINUM  
REWIRABLE FRAME

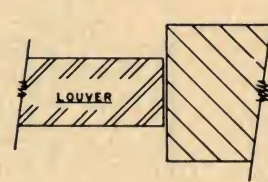
As a rule, screen is furnished only with, and attached to, Louvers. Occasionally, we are requested to furnish separate screens. This involves many more operations, separate packing and handling at a cost about double that of screen attached to Louvers before shipment.

# METHODS OF INSTALLATION

Airolite Industrial Stationary and Adjustable Wall Louvers installed in masonry openings can be equipped with flanges, anchors or screw holes in frame members to make installation possible either during or after wall construction.

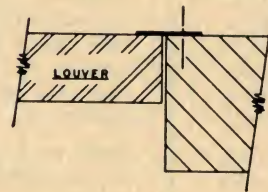
Varying methods of installation are shown in the following details.

## method "A"



Installation by others. No device for attachment. Louver held in opening by stops or moulding furnished by others.

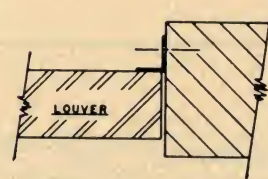
## method "B" (louver installed with flat flange)



Furnished with:

1. Flange at head, sill and/or jambs.
2. Flange extension as required.
3. Holes of suitable dimensions in flanges if and as required.
4. Flange on interior or exterior as desired.

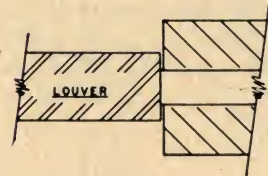
## method "C" (louver installed with angle flange)



Furnished with:

1. Angle flange at head, sill and/or jambs.
2. Angle flange extension as required.
3. Holes of suitable dimensions in angle flanges if and as required.
4. Flange on interior or exterior as desired.

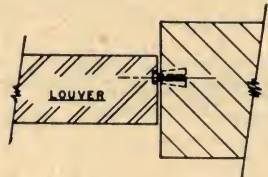
## method "D" (louver installed with masonry strap anchors)



Notes:

1. Standard Strap Anchors are 2" x 10" long.
2. Strap anchors usually furnished only at jambs.

## method "E" (louver installed with screws or bolts through frame)



Furnished with:

1. Holes at jambs.
2. Size of holes as required.

Any of these methods, various combinations of these methods, as well as other means of attachment and installation as detailed by the architect can be employed.



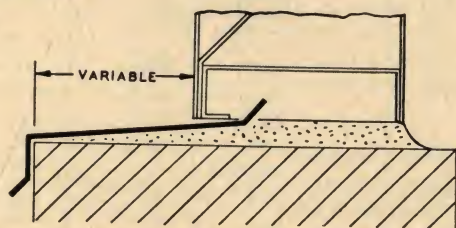
# SILLS

When required, sill pieces are available as an accessory for use with Airolite Louvers.

## formed

Airolite facilities permit fabrication of sheetmetal sill pieces formed with three bends. There are no standard sheetmetal sills, it being possible to form various pieces as required to meet specific job conditions.

A typical sheetmetal sillshape employing three bends is illustrated below.

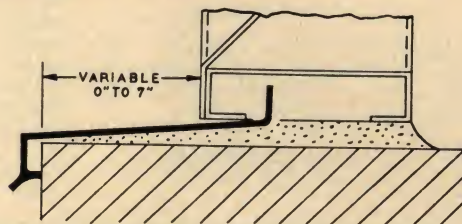


FORMED SHEETMETAL SILL—3 BENDS

Normally, formed sill pieces are fabricated of the same material and gauge as the Louvers.

## extruded

The drawing below illustrates the manner in which extruded aluminum sills can be used with Airolite Louvers.

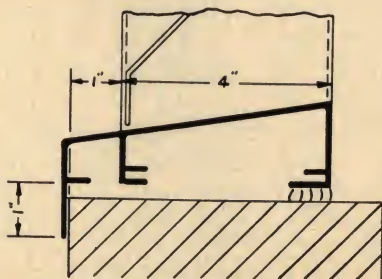


EXTRUDED ALUMINUM SILL

Extruded pieces are available to meet different requirements of sill and wall depths. In specifying, reference can also be made to standard pieces extruded by aluminum manufacturers.

## extended sill frame

Where one-piece sill and frame construction is desirable and opening conditions permit, a 12 gauge extruded aluminum extended sill frame is available as an alternate bottom frame on all stationary and adjustable extruded aluminum Louvers. Specify when desired.



EXTENDED SILL FRAME

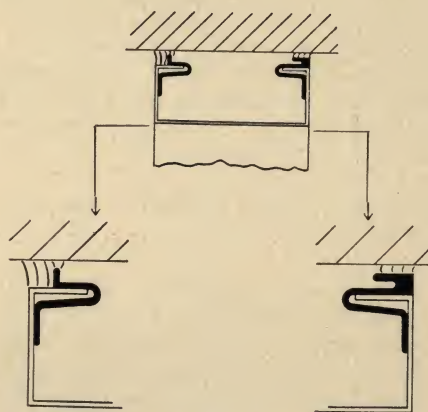
# CAULKING

20d  
Ai

Under normal conditions, ordinary caulking procedures are employed in the installation of Louvers, no special treatment being involved. In those few instances where it is deemed necessary to make special arrangements for caulking formed Louvers, the adaptability of sheetmetal construction makes this possible.

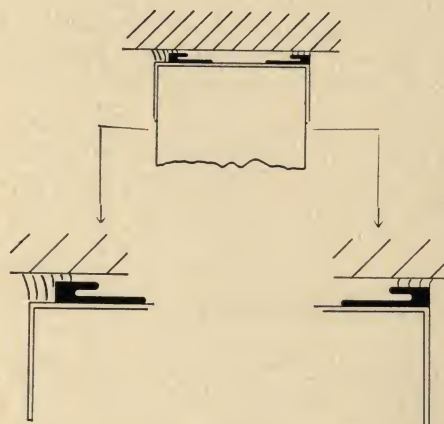
Where unusual conditions may necessitate special attention to the caulking of extruded aluminum Louvers, the extruded aluminum caulking stops illustrated below are readily available. Specify when desired.

## SIDE CHANNELS OUT



Caulking stops available for use wherever extruded aluminum Louver frames have legs turned out.

## SIDE CHANNELS IN



Caulking stops available for use wherever extruded aluminum Louver frames have legs turned in.



# LOUVERS FOR DOORS & INTERIOR USES

Airolite Adjustable and Stationary Doors Louvers are used wherever controlled interior ventilation is desired. The many different Airolite designs and types represent the accumulated knowledge of over thirty years of experience in meeting specific ventilating problems in all kinds of buildings.

Primarily designed for installation in doors, many Airolite designs nevertheless lend themselves readily to other interior installations in walls, partitions and ceilings. Wherever used, they provide economical and efficient ventilation while insuring privacy and the best in appearance and durability.

## construction

Airolite Door Louvers are built of heavy gauge furniture steel, or other available materials that may be specified, in any size. They are held in place by suitable wood mouldings furnished by the contractor or equipped at the factory with metal mouldings so that they cannot be removed from the outer side of the opening.

All Louvers are shipped complete in one unit ready for installation.

## finish

The Airolite Steel Louver finishing process includes, degreasing, bonderizing, spray prime coating and baking, plus a standard solid color baked enamel finish coat.

It is recommended that orders include color selection from the Airolite standard color chart and authorize application of a final coat of baked enamel before shipment. The application of baked enamel through the factory process is far superior to air drying enamel applied at the job. It is particularly recommended that Adjustable Door Louvers be completely finished before shipment to avoid carelessly applied air drying enamel at the job that might impair proper blade operation.

Although we recommend solid color baked enamel of a standard shade selected from our color chart to harmonize with doors or other surrounding construction, other shades and grained finishes are available.

## suggested specifications

Louvers shall be Type . . . . . as made by The Airolite Company of Marietta, Ohio, furnished and installed by this contractor. Quantities and sizes shall be confirmed with door contractor. Steel shall be degreased, bonderized and finished with baked prime coat and high grade baked enamel of standard solid color, to match doors and trim. All colors to be approved by architects.

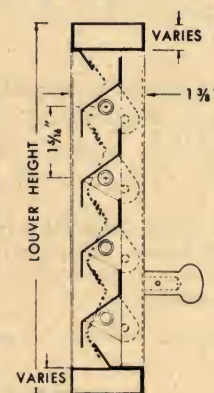
## adjustable

Airolite Adjustable Louvers with the operating knob and the Cam operating mechanism, which are exclusive Airolite features, permit the degree of air circulation desired or provide complete privacy by simple, quick manual operation.

The cost of Adjustable Louvers is only slightly higher than Stationary Louvers. The slight additional cost is a very good investment when Louvers are to be used wherever people live or work.

For greater comfort and better health, specify Airolite Adjustable Louvers for all installations except where permanently open blades are a necessity.

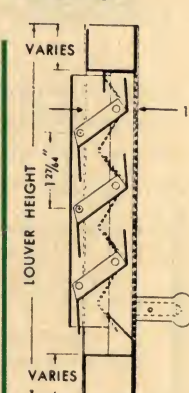
18 gauge



type	mldg.
551	A
569	B
643-A-4	C
584	D
643	E
528	H
570	J
571*	J

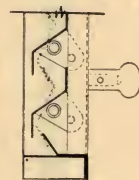
\* Stationary blades

20 gauge



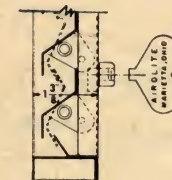
type	mldg.
500	A
500-A	B
500-A-3	C

## standard knob operator



A slight turn adjusts to full-open, full-closed or any intermediate position.

## removable key operator



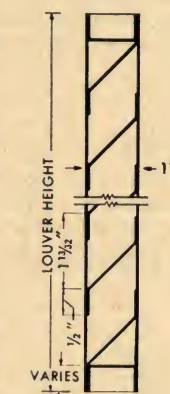
Used with those installations where blade adjustments should be made by engineers or those familiar with the heating and ventilating equipment. Where desired, specify Removable Key #502 for any Louver type having standard knob operator.

## stationary

Airolite Stationary Louvers are furnished in a wide variety of designs for all kinds of installations. Louvers with stationary blades are usually used in doors, walls and partitions of janitors' or linen closets, supply rooms, wash rooms and other places requiring constant air circulation.

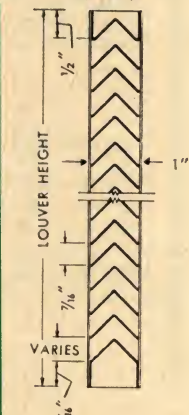
Standard fabrication is of 20 gauge cold rolled steel, or of other metals of similar thickness as may be specified. For unusual requirements, fabrication of heavier gauges is possible.

Z blade design



type	mldg.
560	A
560-A	B
560-A-11	C
560-A-12	E

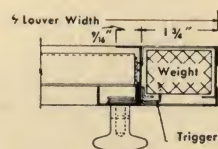
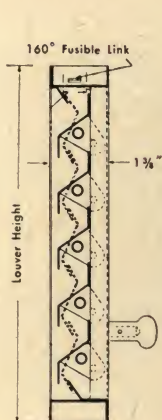
inverted V blade (45°)



type	mldg.
685	A
536	B
685-B	C
685-A-13	E
685-A-8	F
536-D	J



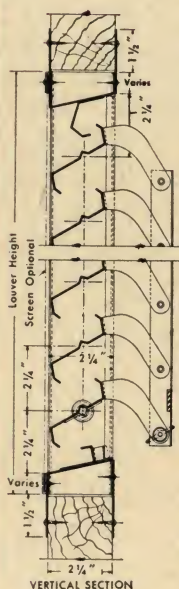
## fusible link



Adjustable Door Louver with encased fusible link and automatic closing mechanism. Made of 18 gauge steel or other metals of similar thickness.

type	mldg.
820	A
820-1	D
820-2	E
820-C-22	C

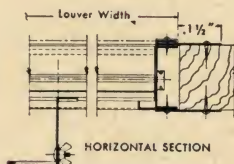
## heavy duty



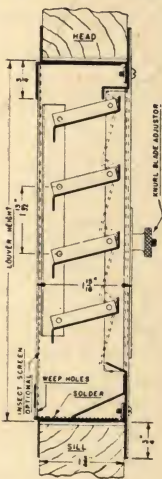
**Type 663-A-22**  
Heavy Duty Adjustable Ball Bearing Louver for industrial doors, partitions and thin walls. 2 1/4" thick, made of 16 gauge steel or other metals of similar thickness.

Can be equipped with metal moulding when required.

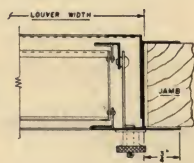
Construction and design are quite similar to Type 663-A described on page 6 except for thickness, blade spacing and free area.



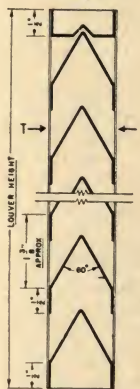
## exterior door louver



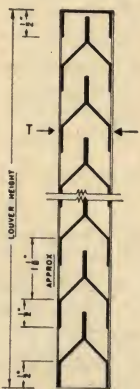
**Type 543-A-5** Exterior Door Louver, 1-15/16" thick, special flanged frame for installation. Specify door thickness. Screen optional.



## inverted V blade (60°) inverted Y blade lightproof design stamped louver plate



type	th.	mldg.
601	1 1/4"	A
601-A-1	3/4"	A
601-A-2	1"	A

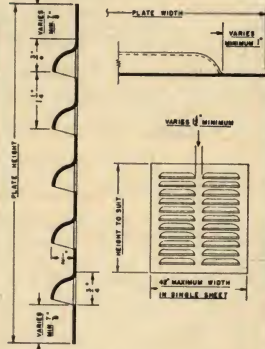


type	th.	mldg.
583	1"	A
583-C	3/4"	A
610	1"	B
583-A-11	1"	C
517*	1 3/8"	D
520	1 1/2"	E
583-S	as	G

\*moulding on exterior only, specify 521.



type	th.	mldg.
619	1"	A
619-A	1"	B
619-A-30	1"	C
619-A-13	1 1/2"	E
619-A-26	1"	F
619-A-22	1"	J



**Type 602-2 Stamped**  
Louvers Louver Plate, made of 16 or 18 gauge steel, other metals of similar thickness. Hooded slots may be 3", 4", 6", 8", 10", or 12". Maximum width in single section is 42".

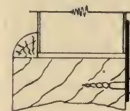
## mouldings.

Airolite Louvers for doors can be furnished without moulding or equipped with metal moulding at the factory on one side or both sides. Wood moulding is always by others. Metal moulding is available at very slight additional cost and often proves no more costly than wood moulding while surpassing it in durability and ease of installation.

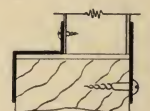
The mouldings described below when matched with the desired Louver designs illustrated at the left, permit easy choice and specification of Louvers to meet the large majority of requirements. Other combinations of designs and mouldings not illustrated are available upon request.



**A** no metal moulding, wood moulding by others



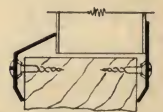
**B** flat flange on inside only



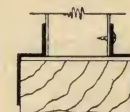
**C** flat flange inside, "Z" moulding opposite side



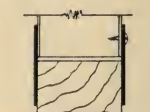
**D** beveled moulding on inside only



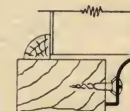
**E** beveled moulding both sides



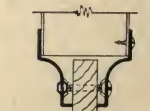
**F** "Z" moulding both sides



**G** flat flanges both sides



**H** curved moulding inside



**J** thin panel moulding

When specifying and ordering Louvers with metal moulding both sides, always advise door thickness. Standard metal moulding is for doors 1 3/8", 1 1/2" or 1 3/4" thick with special moulding for other thicknesses available at slight additional cost.

metal mouldings available, if specified.



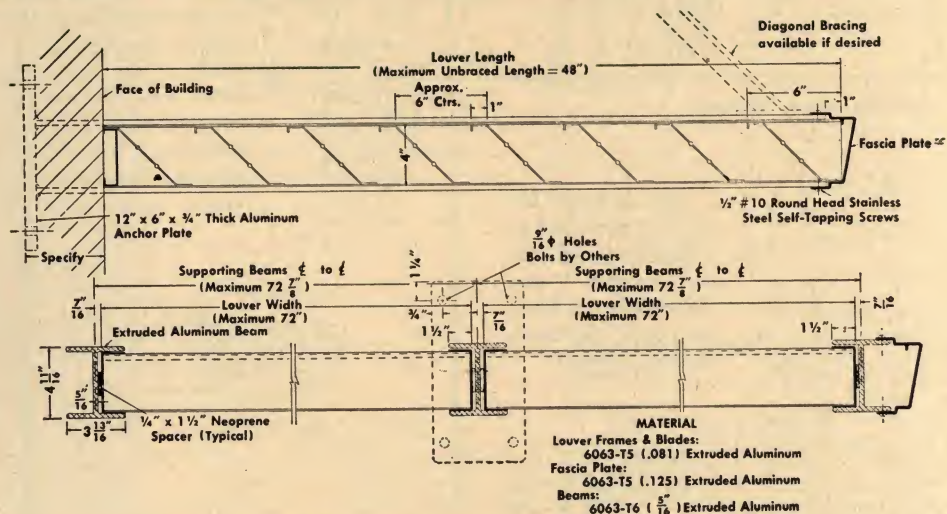
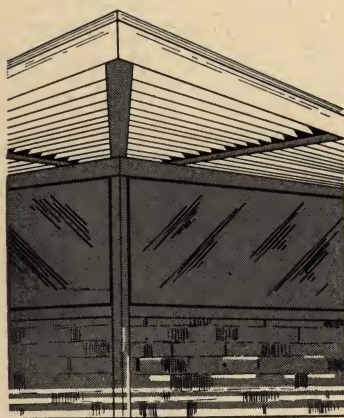
# EYEBROW SUNSHADE LOUVER

Airolite Extruded Aluminum Sunshade Louvers offer maximum sun control and reduction of heat transmission through curtain walls while permitting all the advantages of controlled natural light. Installation is possible during or after wall construction.

Blade design similar to T609 (see page 5) insures strength and rigidity while aluminum construction keeps weight to a minimum. Beams welded to anchor plates leave a 100% safety margin with a 40 pound per square foot load

evenly distributed on a 60" extension. Aluminum diagonal mounting braces are available when desired as an added safety factor. Neoprene spacers permit proper expansion and contraction.

Blade spacing of 6" is best suited to proper deflection of the sun's rays. The standard projection, or overhang, is 48". However, overhang can be varied up to a recommended maximum 72". Standard maximum section width is 72".



type T959

## a few Airolite installations

**California, Rivera**  
Ford Motor Co.  
Mercury Division

**D. C., Washington**  
National Education  
Association Bldg.

**Florida, Miami Beach**  
Sagamore Hotel

**Illinois, Chicago**  
Mutual Trust Life Insurance Co.

**Illinois, Urbana**  
University of Illinois

**Massachusetts, Boston**  
Beth Israel Hospital

**Minnesota, St. Paul**  
Northern States Power  
Company  
High Bridge Steam Plant

**Missouri, Weldon Spring**  
U.S. Atomic Energy Commission

**Nebraska, Omaha**  
Northern Natural Gas Co.

**New York, New York**  
Consolidated Edison Co.  
East River Station

**Ohio, Greenville**  
Corning Glass Works

**Pennsylvania, Philadelphia**  
Philadelphia Electric Co.  
Southwark Station

**Pennsylvania, Pittsburgh**  
Bell Telephone Company of Pa.  
Western Area Headquarters  
Bldg.

**South Carolina, Irmo**  
South Carolina Electric & Gas  
Co.  
Silas C. McMeekin Station

**Texas, Dallas**  
Sarah Ross Zumwalt School

**Washington, Tacoma**  
Woodrow Wilson High School

**West Virginia, Ravenswood**  
Kaiser Aluminum & Chemical  
Corp.

**Saudi Arabia, Riyadh**  
National Saudi Electric Co.

## THE AIROLITE COMPANY • MARIETTA, OHIO, U.S.A.

Boston 16, Mass., 31 St. James Ave. — Liberty 2-1884  
Chicago 6, Ill., 605 W. Washington Blvd. — Central 6-1803  
Glendale 8, Calif., 3715 La Cresenta Ave. — Richmond 7-4605  
Miami 37, Fla., 501 N.W. 54th St. — Plaza 7-4255  
New York 17, N.Y., 415 Lexington Ave. — Murray Hill 7-5264

Philadelphia 7, Pa., 1321 Arch St. — LOcust 7-2984  
Pittsburgh 8, Pa., 503 N. Homewood Ave. — FREmont 1-4900  
Portland 4, Ore., 201 Concord Bldg. — CApitol 8-1714  
St. Petersburg 33, Fla., 2534 22nd St., North — 5-4613  
San Antonio 4, Tex., 111 Merchants St. — CApitol 6-8271

Representatives in all principal cities



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